

David Coffman

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EDUCATION

Duke University

Bachelor of Science in Engineering

Electrical/Computer Engineering (BSE); Computer Science (BS2); GPA: 3.97

Durham, NC

Anticipated May 2022

EXPERIENCE

Amazon

Software Development Engineer Intern --- Alexa AI Model Evaluation

- Implemented a highly parallelized service traffic-shadowing test suite (Java) to improve integration test coverage
- Designed a request sampling API (TypeScript, AWS Lambda, AWS VPC, MySQL) to support the shadowing of service traffic, as well as an accompanying integration test suite
- Extended and refactored existing service code to support additional functionality

Seattle, WA

(Remote)

May 2021 - Aug 2021

Paperplane Financial

Chief Operating Officer

- Developed and managed the company's technology stack, including a multiplatform (macOS/iOS) applicant evaluation application (Swift), a contract pricing utility (Python/C), a Node.js backend (AWS EC2), and portions of the company's website
- Led the development of the company's financial model and core Income Share Agreement

Durham, NC

May 2020 - May 2021

Duke University Department of Electrical and Computer Engineering

Undergraduate Teaching Assistant (Computer Architecture)

- Facilitate weekly discussion sections and office hours
- Provide timely explanations, feedback, and responses to student questions
- Aid students in understanding course material and debugging project/lab code (written in C, RISC-V assembly)

Durham, NC

Aug 2020 - Present

North Carolina State House of Representatives Campaign

Digital Consultant

- Developed two Swift-based mobile applications designed to facilitate the voter canvassing process and inform strategic campaign decisions
- Tested and refined applications based on functionality desired by the candidate

Durham, NC

May 2019 - Mar 2020

Virginia Commonwealth University School of Engineering

Research Team Leader (Intern)

- Led a research team in the development and testing of analytical tools (in Python and Java)
- Predicted the ideologies of Twitter users based on the content of their tweets and the individuals they interacted with (publication in preparation) using our iteratively refined analytical tools
- Analyzed changing trends on Twitter by repurposing the developed analytical tools

Richmond, VA

Aug 2017 - Aug 2018

LEADERSHIP AND INVOLVEMENT

Duke University Housing & Residence Life

Resident Assistant

- Provide mentorship and leadership to first-year students
- Promote inclusive intellectual exchange and learning among residents
- Ensure safety by participating in the on-call duty rotation, responding to crisis situations, and managing conflict resolution within the community
- Foster community by arranging educational and social events for residents

Durham, NC

Aug 2019 - Present